

ANUFRIEV LAB.

[Thermal phonon engineering]



Ballistic heat transport, Nanoscale heat conduction, Phononic crystals

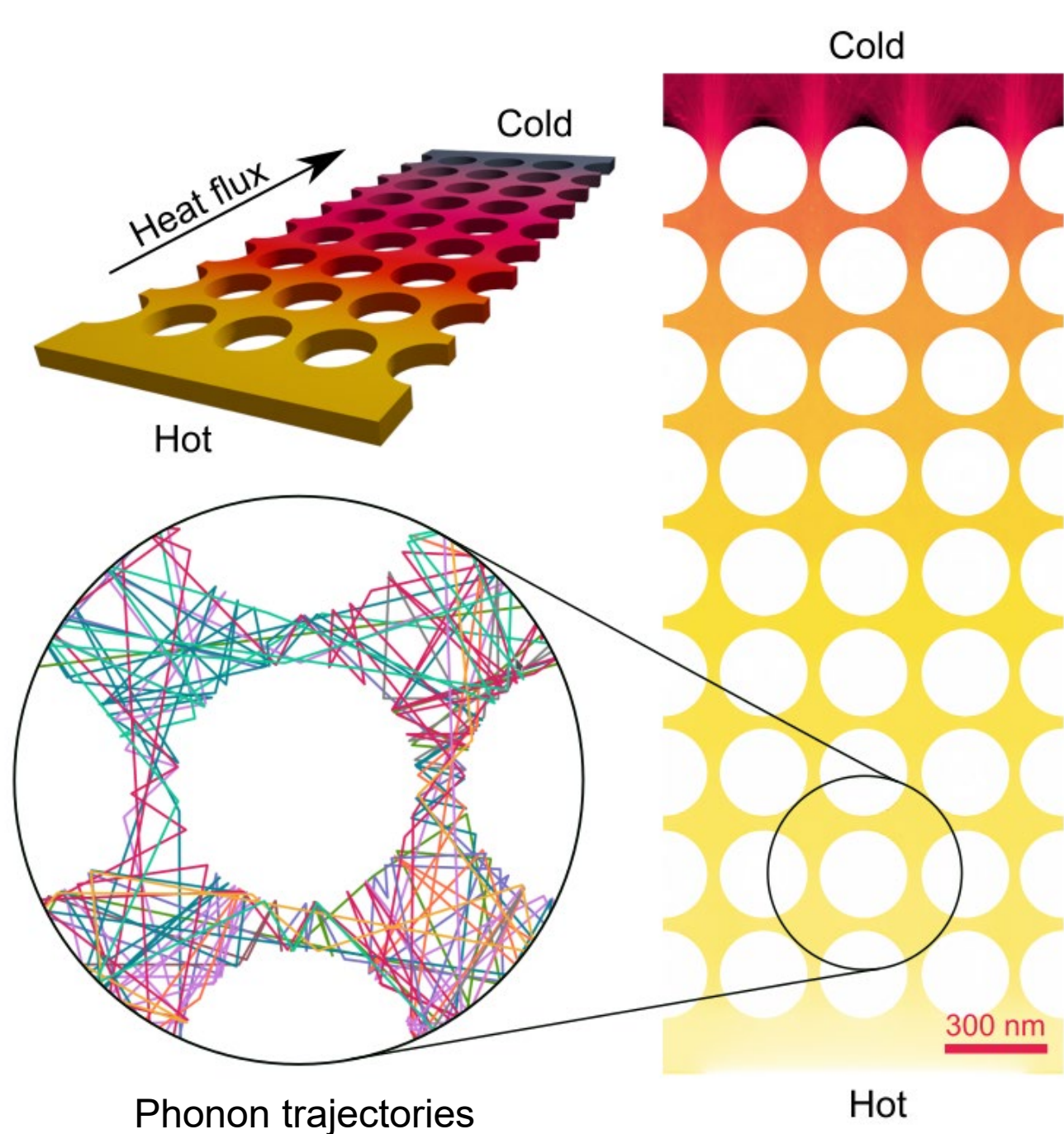
Department of Informatics and Electronics

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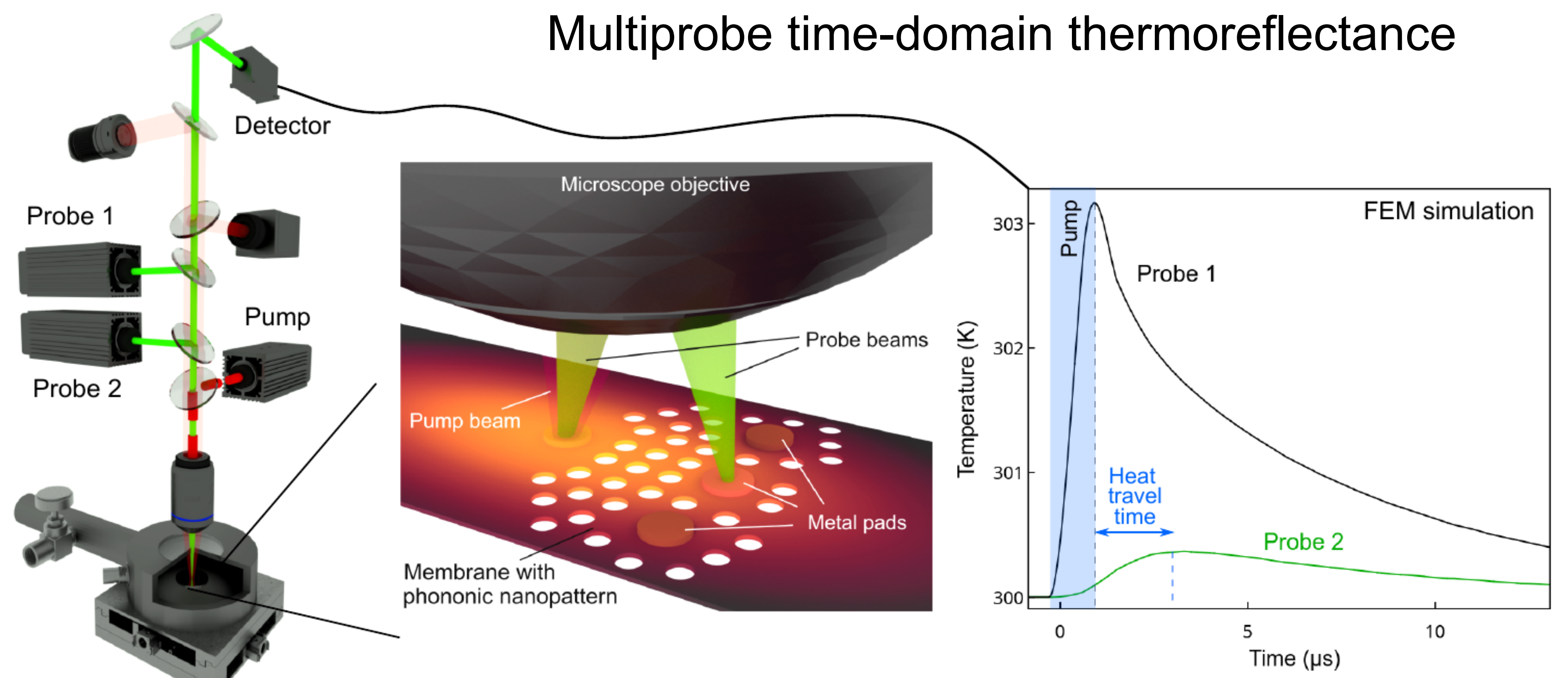
Our theoretical and experimental studies are focused on ballistic thermal transport and methods of heat flux manipulations at nanoscale for application in microelectronics, sensors, and microelectromechanical systems.

- Time-domain thermoreflectance experiments
- Monte Carlo simulations
- Nanoscale thermal transport
- Ballistic phonon transport

Monte Carlo simulations



Multiprobe time-domain thermoreflectance



Applications in microelectronics, thermoelectrics, microfluidics, bio-sensing

